

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	1	("6117107").PN.	US-PGPUB; USPAT; USOCR; EPO	OR	OFF	2006/04/18 11:25
L2	2	chen-long.in.	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2006/04/18 11:26
L3	1	("20040143196").PN.	US-PGPUB; USPAT; USOCR; EPO	OR	OFF	2006/04/18 11:26
L4	40	CHEN-LONG-HSIUNG.in.	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2006/04/18 11:34
L5	1598	(604/110,111).CCLS.	US-PGPUB; USPAT; USOCR; EPO	OR	OFF	2006/04/18 11:34
L6	331	L5 and ((pierce or puncture or hole) with (seal or plunger or piston or valve))	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2006/04/18 13:04
L7	16	("3134380"   "3677245"   "3951146"   "3998224"   "4213456").PN. OR ("4391273").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/18 13:00
L8	1126	(604/85-90).CCLS.	US-PGPUB; USPAT; USOCR; EPO	OR	OFF	2006/04/18 13:00
L9	241	L8 and ((pierce or puncture or hole) with (seal or plunger or piston or valve))	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2006/04/18 14:01
L10	240	L9 not (L6)	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2006/04/18 14:00
L11	0	604/180-193	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2006/04/18 14:01

## EAST Search History

L12	4602	(604/180-193).CCLS.	US-PGPUB; USPAT; USOCR; EPO	OR	OFF	2006/04/18 14:01
L13	491	L12 and ((pierce or puncture or hole) with (seal or plunger or piston or valve))	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2006/04/18 14:01
L14	388	L13 not (L10 or L6)	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2006/04/18 14:01
S1	40	CHEN-LONG-HSIUNG.in.	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2005/07/11 13:47
S2	37	CHEN-LONG-HSIUNG.in. and needle	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2005/07/11 16:04
S3	37	CHEN-LONG-HSIUNG.in. and needle	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2005/07/11 13:55
S4	32	604/110 and (plunger with seal with needle with piston)	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2005/07/11 14:04
S5	20	604/263 and (plunger with seal with needle with piston)	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2005/07/11 14:05
S6	3	S5 not S4	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2005/07/11 14:04
S7	3	604/164 and (plunger with seal with needle with piston)	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2005/07/11 14:06
S8	23	604/192 and (plunger with seal with needle with piston)	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2005/07/11 14:08
S9	13	S8 not (S7 or S6 or S5)	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2005/07/11 14:06

## EAST Search History

S10	11	604/197 and (plunger with seal with needle with piston)	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2005/07/11 14:09
S11	8	S10 not (S9 or S7)	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2005/07/11 14:08
S12	31	604/198 and (plunger with seal with needle with piston)	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2005/07/11 14:13
S13	24	S12 not (S11 or S7)	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2005/07/11 14:10
S14	0	604/180 and (plunger with seal with needle with piston)	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2005/07/11 14:13
S15	0	604/186 and (plunger with seal with needle with piston)	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2005/07/11 14:13
S16	1	604/171 and (plunger with seal with needle with piston)	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2005/07/11 14:13
S17	1	604/177 and (plunger with seal with needle with piston)	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2005/07/11 14:14
S18	4	128/919 and (plunger with seal with needle with piston)	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2005/07/11 14:14
S19	19	(US-5205826-\$ or US-5232458-\$ or US-5242402-\$ or US-5328475-\$ or US-5405327-\$ or US-5562627-\$ or US-5569203-\$ or US-5575774-\$ or US-5591131-\$ or US-5938622-\$ or US-5180369-\$ or US-4950241-\$ or US-5336198-\$ or US-6413236-\$). did. or (EP-590757-\$ or EP-818209-\$ or EP-818210-\$ or EP-818211-\$ or EP-1506740-\$).did.	USPAT; EPO	OR	ON	2005/07/11 14:29
S20	6	S19 and spring	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2005/07/11 14:30

## EAST Search History

S21	0	S19 and piercer	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2005/07/11 15:44
S22	2	S19 and pierce	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2005/07/11 15:45
S23	1	("20040230163").PN.	US-PGPUB; USPAT; USOCR; EPO	OR	OFF	2005/07/11 15:45
S24	1	("5569203").PN.	US-PGPUB; USPAT; USOCR; EPO	OR	OFF	2005/07/11 16:04
S25	19	("5378240"   "5395346").PN. OR ("5569203").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/07/11 16:04
S26	14	("5125908"   "5171300"   "5211628"   "5242402"   "5328475"   "5401246"   "5405327"   "5496278"   "5562627"   "5569203"   "5575774"   "5578015").PN. OR ("6117107").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/07/11 16:09
S27	0	("5336198.pn.").PN.	US-PGPUB; USPAT; USOCR; EPO	OR	OFF	2005/07/11 17:07
S28	0	("5336198.pn.").PN.	US-PGPUB; USPAT; USOCR; EPO	OR	OFF	2005/07/11 17:07
S29	1	("5336198").PN.	US-PGPUB; USPAT; USOCR; EPO	OR	OFF	2005/07/11 17:07
S30	93	604/110 and ((barrel or piston) with pierce)	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2006/04/17 16:44